



9th District Attorney General's Office
Drug and Violent Crimes Task Force
1008 Bradford Way
Kingston TN 37763

State of Tennessee
Office of the 9th District
Attorney General



Report of Forensic Findings
2024-CDIV-0214

Agent Cortney E. Dugger MSDF|MBA|CFCE
1008 Bradford Way
Kingston TN, 37763



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Synopsis of Investigation

On February 14, 2024, Deputy RJ Leonard conducted an arrest of Tabatha Smith at approximately 9:47 PM on the Highway 60 Bridge in Birchwood, Tennessee. During transport, Deputy Leonard transmitted what appears to be 'water' at 10:03 PM. After an exhaustive search, Leonard's 2010 Police Crown Victorian was located in the Chickamauga reservoir at the end of Blythe's Ferry Road. According to Leonard's spouse, he had purchased a GPS device out of pocket to use for navigation while on duty. The initial inventory of the vehicle concluded that there was no navigation system located in the vehicle. According to Leonard's spouse and MCSO Chief Deputy Malone, the vehicle that he was driving was not his usual patrol car as it was in the shop for repairs. Chief Malone confirmed that the GPS unit was not in the vehicle being repaired. On March 18, 2024 THP Sergeant John McFarland notified the author of this that he had seen a GPS unit while pulling the ECM and PCM from the vehicle. On March 19, 2024, I, Agent Dugger, picked up the Garmin 52 EX at the Chattanooga THP seizure lot, it was found lying in the driver seat of Leonard's cruiser. Trooper Cameron Azbill transferred the device to the 9th District Attorney General's Office. The section of this report will be labeled **Part 1 Garmin**.

Leonard's iPhone belonging to Leonard was also recovered from his tactical vest. This phone was extracted by THP on 4/2/2024 and the data shared with the author of this report in order to filter the data covering the call and accident on 2/14/2024. The section of this report will be labeled **Part 2 iPhone**.

Part 1 Garmin GPS

Tools

Garmin Express 7.21.0.0

Garmin BaseCamp version 4.7.5

Google Earth Pro 7.3.6.9796

Microsoft Excel

Creworks Digital Ultrasonic Cleaner

Hairdryer

Dehumidifier

EDAS Fox Forensic Machine



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The Device

The device, found lying on the front driverside floorboard, was water logged and caked in mud. On scene, the device was tilted left and right to let any water escape the case. Additionally, the heavy mud was removed and the item placed in a bag. The device was lying with the power cord.

Garmin Drive 52 EX

SN: 75Q168633

Recovered: 3/19/2024

The device was transported to the District Attorney General's Office located at 1008 Bradford Way, in Kingston. In order to eliminate any moisture from the device, it was disassembled drained and the circuit board dried with compressed air prior to attaching to a dehumidifier for several days. The original LCD display as well as the battery were assumed to be unrepairable and were not reconnected to the circuit board at anytime after disassembly. The photos of the recovered device are below:



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Figure 1 Garmin disassembled



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Figure 2 System board and chip



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A donor unit was purchased to transition the recovered Garmin board in order to use the battery and screen to run the device. Prior to installing the board in the donor unit, the board was sprayed with generic scrubbing bubbles, cleaned with a soft bristle brush and processed in an ultrasonic cleaner as follows:

1. 2500 MLs of distilled water
2. 250 MLs of parts cleaning solution Elma Tec Clean A1 Electronics and PCB Ultrasonic Cleaner Solution, 10.8 pH, 10 L
3. 50 Celsius for 2.5 minutes, flipped and repeated
4. Removed device from the ultrasonic cleaner and air blasted
5. Dipped the device in 91% alcohol and air blasted
6. Placed device on mat and air dried with air dryer on cool setting for 20 minutes
7. Device was then placed on top of server pull fan for approximately 72 hours



Figure 3 Chip cleaning generic scrubber



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Figure 4 Ultrasonic Cleaner



Figure 5 System Board in Ultrasonic Cleaner



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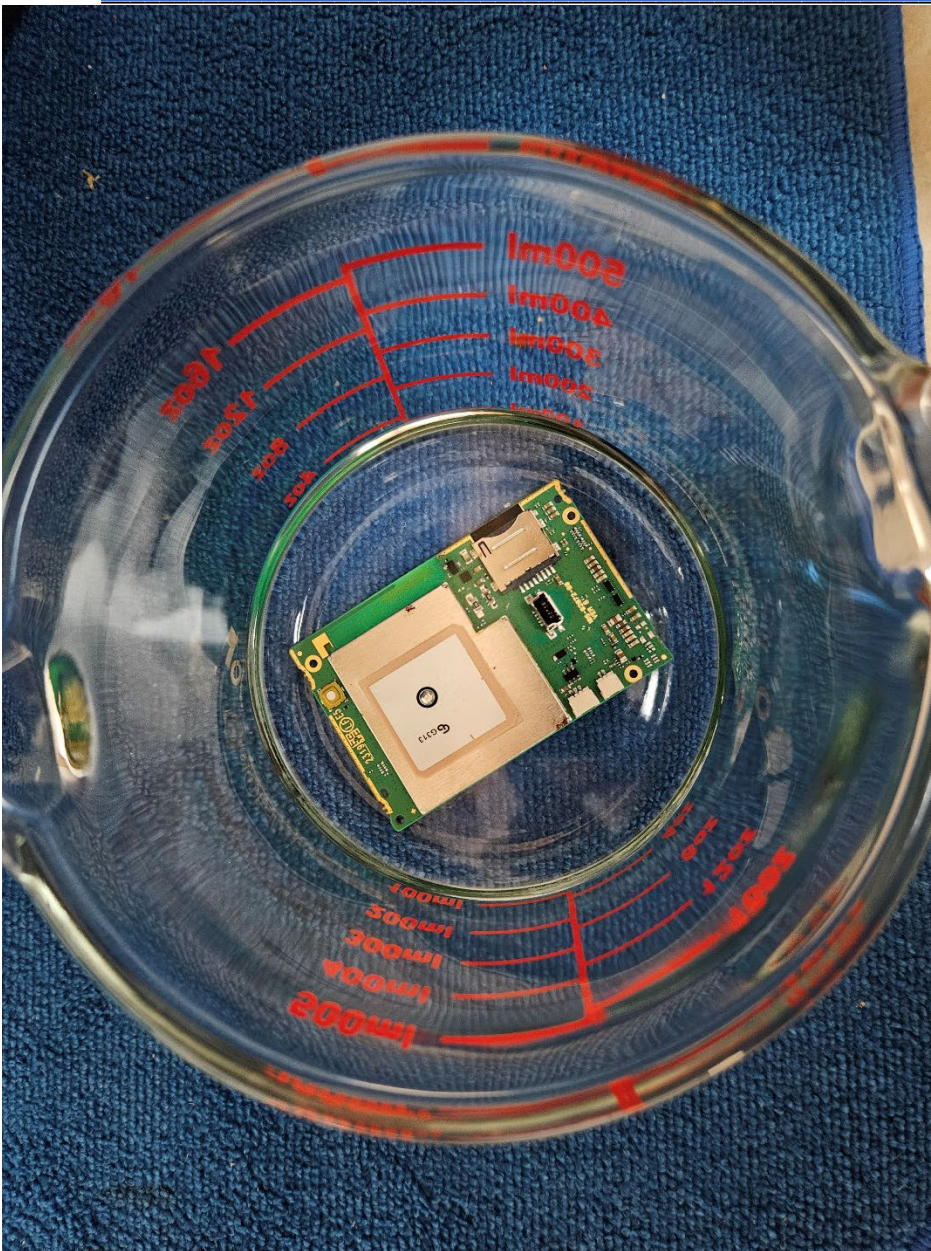


Figure 6 System Board in 91% alcohol



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Figure 7 Board air dried

Once the device was thoroughly cleaned, the donor device was disassembled, and the circuit board was installed into the donor unit. The evidence board appeared to be free of cracks or physical damage with the exception that the power button would not operate.



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Figure 8 Donor device



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After the unit was charged the Garmin Connection screen displayed on the repaired device.



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Extraction

5/13/2024 With the device powered on and connected to my forensic machine, the data was extracted from the device using Garmin Express version 7.21.0.0. Utilizing the Garmin Express backup feature a backup copy of the device's data was transferred via USB connection with a file recovered labeled Garmin with 87,299,003 bytes of data.

To examine the recovered data, Garmin BaseCamp version 4.7.5 was used after ingesting the backup file created using Garmin Express. Upon examination the data recovered starts on 12/8/2023 at 10:47 AM and ends 2/14/2024 at 10:04 PM.

Files Recovered

Name	Folder Path
DriveLog.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\
DriveLog10.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog11.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\



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DriveLog12.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog13.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog14.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog15.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog16.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog17.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog18.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog19.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog20.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog21.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog3.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog4.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog5.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog6.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog7.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\



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DriveLog8.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
DriveLog9.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\GPX\Archive\
app_tools_menu.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
custom_where_to.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
D4943250A.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
D6022130A.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
drive_hours_logger.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
keyboard_mode_menu.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
map_tools_menu.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
pre.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
quick_search_list.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
RecentStops.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
recent_searches.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
search_db.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
settings.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
settingsReadOnly.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
user_strings.db	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\.System\SQLite\
Current.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\
10.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
11.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
12.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
13.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
14.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
15.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\



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16.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
17.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
18.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
19.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
20.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
21.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
22.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
23.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
24.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
25.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
6.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
7.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
8.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\
9.gpx	Path\Garmin\Backups\75Q168633\2024-05-13 (17.28.51)\GPX\Archive\

Examination

For the purposes of this investigation, the highlights of this report will focus on the date of 2/14/2024 from approximately 9:08 PM when he arrived at the family home to 9:33 PM when Leonard responded to the dispatch and ending at 10:04 PM when Leonard radioed the word water over the police radio.

The following data set was exported from Garmin BaseCamp showing GPS points from arrival at home to departure, to scene route/arrival, departure from scene and entry of water. The highlighted portions were added to show speeds at 0.0 MPH in yellow or green to show movement from 0.00 MPH.

Index	Elevation	Leg Distance	Leg Time	Leg Speed	Leg Course	Time	Position
248	734 ft	10 ft	0:00:01	7 mph	272.1° true	14-Feb-2024 09:08:01 PM	N35° 23.973' W84° 54.650'
249	735 ft	5 ft	0:00:01	3.6 mph	273.9° true	14-Feb-2024 09:08:02 PM	N35° 23.973' W84° 54.652'



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250	737 ft	3 ft	0:00:01	1.8 mph	270.0° true	14-Feb-2024 09:08:03 PM	N35° 23.973' W84° 54.653'
251	738 ft	126 ft	0:00:11	8 mph	346.4° true	14-Feb-2024 09:08:04 PM	N35° 23.973' W84° 54.653'
252	740 ft	13 ft	0:24:48	0.0 mph	9.0° true	14-Feb-2024 09:08:15 PM	N35° 23.993' W84° 54.659'
253	743 ft	1 ft	0:00:28	0.0 mph	90.0° true	14-Feb-2024 09:33:03 PM	N35° 23.996' W84° 54.659'
254	743 ft	85 ft	0:00:13	4.4 mph	164.5° true	14-Feb-2024 09:33:31 PM	N35° 23.996' W84° 54.659'
255	753 ft	13 ft	0:00:02	4.3 mph	170.4° true	14-Feb-2024 09:33:44 PM	N35° 23.982' W84° 54.654'
256	751 ft	20 ft	0:00:04	3.3 mph	206.2° true	14-Feb-2024 09:33:46 PM	N35° 23.980' W84° 54.654'
257	750 ft	28 ft	0:00:02	10 mph	150.2° true	14-Feb-2024 09:33:50 PM	N35° 23.977' W84° 54.656'
258	751 ft	21 ft	0:00:01	15 mph	92.0° true	14-Feb-2024 09:33:52 PM	N35° 23.973' W84° 54.653'
259	751 ft	234 ft	0:00:05	32 mph	91.9° true	14-Feb-2024 09:33:53 PM	N35° 23.973' W84° 54.648'
260	754 ft	55 ft	0:00:01	37 mph	91.9° true	14-Feb-2024 09:33:58 PM	N35° 23.972' W84° 54.601'
261	753 ft	142 ft	0:00:04	24 mph	90.0° true	14-Feb-2024 09:33:59 PM	N35° 23.972' W84° 54.590'
262	761 ft	9 ft	0:00:01	6 mph	72.0° true	14-Feb-2024 09:34:03 PM	N35° 23.972' W84° 54.562'
263	761 ft	48 ft	0:00:01	33 mph	110.9° true	14-Feb-2024 09:34:04 PM	N35° 23.972' W84° 54.560'
264	761 ft	21 ft	0:00:01	14 mph	147.6° true	14-Feb-2024 09:34:05 PM	N35° 23.969' W84° 54.551'
265	762 ft	31 ft	0:00:01	21 mph	148.1° true	14-Feb-2024 09:34:06 PM	N35° 23.966' W84° 54.548'
266	762 ft	41 ft	0:00:01	28 mph	147.9° true	14-Feb-2024 09:34:07 PM	N35° 23.962' W84° 54.545'
267	762 ft	369 ft	0:00:06	42 mph	144.5° true	14-Feb-2024 09:34:08 PM	N35° 23.956' W84° 54.541'
268	762 ft	70 ft	0:00:01	48 mph	130.2° true	14-Feb-2024 09:34:14 PM	N35° 23.907' W84° 54.498'
269	761 ft	81 ft	0:00:01	55 mph	121.1° true	14-Feb-2024 09:34:15 PM	N35° 23.899' W84° 54.487'
270	761 ft	0.1 mi	0:00:07	65 mph	120.3° true	14-Feb-2024 09:34:16 PM	N35° 23.893' W84° 54.473'



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271	746 ft	0.2 mi	0:00:09	78 mph	116.5° true	14-Feb-2024 09:34:23 PM	N35° 23.837' W84° 54.357'
272	720 ft	461 ft	0:00:05	63 mph	111.5° true	14-Feb-2024 09:34:32 PM	N35° 23.762' W84° 54.171'
273	712 ft	152 ft	0:00:02	52 mph	93.6° true	14-Feb-2024 09:34:37 PM	N35° 23.734' W84° 54.084'
274	708 ft	164 ft	0:00:03	37 mph	93.4° true	14-Feb-2024 09:34:39 PM	N35° 23.732' W84° 54.054'
275	705 ft	33 ft	0:00:01	22 mph	93.9° true	14-Feb-2024 09:34:42 PM	N35° 23.731' W84° 54.021'
276	705 ft	22 ft	0:00:01	15 mph	92.9° true	14-Feb-2024 09:34:43 PM	N35° 23.730' W84° 54.014'
277	704 ft	27 ft	0:00:01	18 mph	183.8° true	14-Feb-2024 09:34:44 PM	N35° 23.730' W84° 54.010'
278	704 ft	23 ft	0:00:01	16 mph	199.5° true	14-Feb-2024 09:34:45 PM	N35° 23.726' W84° 54.010'
279	702 ft	35 ft	0:00:01	24 mph	199.4° true	14-Feb-2024 09:34:46 PM	N35° 23.722' W84° 54.012'
280	702 ft	43 ft	0:00:01	29 mph	199.8° true	14-Feb-2024 09:34:47 PM	N35° 23.717' W84° 54.014'
281	701 ft	388 ft	0:00:06	44 mph	199.6° true	14-Feb-2024 09:34:48 PM	N35° 23.710' W84° 54.017'
282	701 ft	0.1 mi	0:00:07	67 mph	199.8° true	14-Feb-2024 09:34:54 PM	N35° 23.650' W84° 54.043'
283	710 ft	0.2 mi	0:00:08	83 mph	201.1° true	14-Feb-2024 09:35:01 PM	N35° 23.544' W84° 54.090'
284	708 ft	0.2 mi	0:00:07	79 mph	201.1° true	14-Feb-2024 09:35:09 PM	N35° 23.394' W84° 54.161'
285	721 ft	0.2 mi	0:00:07	81 mph	201.3° true	14-Feb-2024 09:35:16 PM	N35° 23.269' W84° 54.220'
286	716 ft	0.3 mi	0:00:10	94 mph	200.9° true	14-Feb-2024 09:35:23 PM	N35° 23.141' W84° 54.281'
287	696 ft	0.2 mi	0:00:08	95 mph	195.7° true	14-Feb-2024 09:35:33 PM	N35° 22.930' W84° 54.380'
288	716 ft	0.3 mi	0:00:10	96 mph	188.8° true	14-Feb-2024 09:35:41 PM	N35° 22.753' W84° 54.441'
289	697 ft	0.3 mi	0:00:10	100 mph	183.6° true	14-Feb-2024 09:35:51 PM	N35° 22.525' W84° 54.484'
290	712 ft	0.2 mi	0:00:06	102 mph	198.4° true	14-Feb-2024 09:36:01 PM	N35° 22.284' W84° 54.503'
291	729 ft	0.5 mi	0:00:18	101 mph	200.1° true	14-Feb-2024 09:36:07 PM	N35° 22.145' W84° 54.560'



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292	704 ft	0.3 mi	0:00:11	92 mph	198.4° true	14-Feb-2024 09:36:25 PM	N35° 21.734' W84° 54.744'
293	712 ft	0.1 mi	0:00:05	87 mph	201.3° true	14-Feb-2024 09:36:36 PM	N35° 21.503' W84° 54.838'
294	712 ft	0.2 mi	0:00:09	94 mph	206.6° true	14-Feb-2024 09:36:41 PM	N35° 21.406' W84° 54.885'
295	702 ft	0.3 mi	0:00:12	94 mph	209.2° true	14-Feb-2024 09:36:50 PM	N35° 21.224' W84° 54.996'
296	710 ft	0.3 mi	0:00:14	89 mph	209.5° true	14-Feb-2024 09:37:02 PM	N35° 20.987' W84° 55.159'
297	750 ft	0.3 mi	0:00:13	89 mph	209.2° true	14-Feb-2024 09:37:16 PM	N35° 20.726' W84° 55.340'
298	718 ft	0.4 mi	0:00:14	91 mph	211.3° true	14-Feb-2024 09:37:29 PM	N35° 20.481' W84° 55.508'
299	748 ft	0.3 mi	0:00:14	90 mph	214.7° true	14-Feb-2024 09:37:43 PM	N35° 20.219' W84° 55.703'
300	770 ft	0.3 mi	0:00:14	89 mph	215.1° true	14-Feb-2024 09:37:57 PM	N35° 19.970' W84° 55.914'
301	734 ft	0.3 mi	0:00:11	83 mph	215.0° true	14-Feb-2024 09:38:11 PM	N35° 19.725' W84° 56.126'
302	750 ft	0.2 mi	0:00:08	74 mph	215.2° true	14-Feb-2024 09:38:22 PM	N35° 19.543' W84° 56.281'
303	781 ft	0.1 mi	0:00:09	53 mph	215.0° true	14-Feb-2024 09:38:30 PM	N35° 19.427' W84° 56.382'
304	762 ft	314 ft	0:00:06	36 mph	215.0° true	14-Feb-2024 09:38:39 PM	N35° 19.333' W84° 56.462'
305	773 ft	26 ft	0:00:01	18 mph	215.2° true	14-Feb-2024 09:38:45 PM	N35° 19.291' W84° 56.499'
306	775 ft	41 ft	0:00:01	28 mph	291.9° true	14-Feb-2024 09:38:46 PM	N35° 19.288' W84° 56.502'
307	775 ft	32 ft	0:00:01	22 mph	309.4° true	14-Feb-2024 09:38:47 PM	N35° 19.290' W84° 56.509'
308	775 ft	41 ft	0:00:01	28 mph	307.0° true	14-Feb-2024 09:38:48 PM	N35° 19.293' W84° 56.514'
309	773 ft	297 ft	0:00:05	41 mph	303.3° true	14-Feb-2024 09:38:49 PM	N35° 19.297' W84° 56.521'
310	759 ft	0.1 mi	0:00:06	62 mph	303.3° true	14-Feb-2024 09:38:54 PM	N35° 19.324' W84° 56.571'
311	740 ft	0.1 mi	0:00:06	67 mph	313.0° true	14-Feb-2024 09:39:00 PM	N35° 19.374' W84° 56.663'
312	732 ft	0.1 mi	0:00:07	66 mph	329.9° true	14-Feb-2024 09:39:06 PM	N35° 19.440' W84° 56.750'



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313	729 ft	0.2 mi	0:00:10	66 mph	338.5° true	14-Feb-2024 09:39:13 PM	N35° 19.536' W84° 56.819'
314	724 ft	0.1 mi	0:00:06	67 mph	319.6° true	14-Feb-2024 09:39:23 PM	N35° 19.684' W84° 56.890'
315	710 ft	0.1 mi	0:00:08	67 mph	305.7° true	14-Feb-2024 09:39:29 PM	N35° 19.757' W84° 56.966'
316	707 ft	0.2 mi	0:00:10	58 mph	303.7° true	14-Feb-2024 09:39:37 PM	N35° 19.833' W84° 57.096'
317	727 ft	255 ft	0:00:05	35 mph	303.7° true	14-Feb-2024 09:39:47 PM	N35° 19.911' W84° 57.239'
318	732 ft	16 ft	0:00:01	11 mph	304.3° true	14-Feb-2024 09:39:52 PM	N35° 19.935' W84° 57.282'
319	732 ft	26 ft	0:00:01	17 mph	215.6° true	14-Feb-2024 09:39:53 PM	N35° 19.936' W84° 57.285'
320	732 ft	31 ft	0:00:01	21 mph	215.8° true	14-Feb-2024 09:39:54 PM	N35° 19.933' W84° 57.288'
321	732 ft	42 ft	0:00:01	28 mph	215.4° true	14-Feb-2024 09:39:55 PM	N35° 19.929' W84° 57.291'
322	732 ft	46 ft	0:00:01	32 mph	215.8° true	14-Feb-2024 09:39:56 PM	N35° 19.923' W84° 57.296'
323	732 ft	430 ft	0:00:07	42 mph	215.6° true	14-Feb-2024 09:39:57 PM	N35° 19.917' W84° 57.302'
324	753 ft	57 ft	0:00:01	39 mph	215.5° true	14-Feb-2024 09:40:04 PM	N35° 19.859' W84° 57.352'
325	756 ft	54 ft	0:00:01	37 mph	243.8° true	14-Feb-2024 09:40:05 PM	N35° 19.852' W84° 57.359'
326	757 ft	45 ft	0:00:01	31 mph	258.8° true	14-Feb-2024 09:40:06 PM	N35° 19.848' W84° 57.369'
327	759 ft	46 ft	0:00:01	32 mph	277.7° true	14-Feb-2024 09:40:07 PM	N35° 19.846' W84° 57.377'
328	764 ft	51 ft	0:00:01	35 mph	295.0° true	14-Feb-2024 09:40:08 PM	N35° 19.847' W84° 57.387'
329	767 ft	54 ft	0:00:01	37 mph	294.7° true	14-Feb-2024 09:40:09 PM	N35° 19.851' W84° 57.396'
330	773 ft	0.1 mi	0:00:09	43 mph	289.8° true	14-Feb-2024 09:40:10 PM	N35° 19.855' W84° 57.406'
331	831 ft	444 ft	0:00:06	51 mph	278.6° true	14-Feb-2024 09:40:19 PM	N35° 19.886' W84° 57.513'
332	866 ft	73 ft	0:00:01	50 mph	263.4° true	14-Feb-2024 09:40:25 PM	N35° 19.897' W84° 57.602'
333	871 ft	0.1 mi	0:00:10	54 mph	261.8° true	14-Feb-2024 09:40:26 PM	N35° 19.896' W84° 57.616'



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334	925 ft	134 ft	0:00:02	46 mph	259.6° true	14-Feb-2024 09:40:36 PM	N35° 19.877' W84° 57.773'
335	928 ft	63 ft	0:00:01	43 mph	275.0° true	14-Feb-2024 09:40:38 PM	N35° 19.873' W84° 57.800'
336	928 ft	66 ft	0:00:01	45 mph	278.9° true	14-Feb-2024 09:40:39 PM	N35° 19.874' W84° 57.812'
337	925 ft	63 ft	0:00:01	43 mph	279.0° true	14-Feb-2024 09:40:40 PM	N35° 19.876' W84° 57.825'
338	923 ft	58 ft	0:00:01	40 mph	296.6° true	14-Feb-2024 09:40:41 PM	N35° 19.878' W84° 57.838'
339	920 ft	58 ft	0:00:01	39 mph	306.2° true	14-Feb-2024 09:40:42 PM	N35° 19.882' W84° 57.848'
340	918 ft	52 ft	0:00:01	35 mph	306.3° true	14-Feb-2024 09:40:43 PM	N35° 19.887' W84° 57.858'
341	914 ft	54 ft	0:00:01	37 mph	289.8° true	14-Feb-2024 09:40:44 PM	N35° 19.892' W84° 57.866'
342	909 ft	54 ft	0:00:01	37 mph	263.0° true	14-Feb-2024 09:40:45 PM	N35° 19.895' W84° 57.876'
343	904 ft	49 ft	0:00:01	33 mph	253.4° true	14-Feb-2024 09:40:46 PM	N35° 19.894' W84° 57.887'
344	901 ft	63 ft	0:00:01	43 mph	253.6° true	14-Feb-2024 09:40:47 PM	N35° 19.892' W84° 57.896'
345	898 ft	71 ft	0:00:01	48 mph	250.3° true	14-Feb-2024 09:40:48 PM	N35° 19.889' W84° 57.909'
346	896 ft	76 ft	0:00:01	52 mph	249.4° true	14-Feb-2024 09:40:49 PM	N35° 19.885' W84° 57.922'
347	893 ft	82 ft	0:00:01	56 mph	249.3° true	14-Feb-2024 09:40:50 PM	N35° 19.881' W84° 57.936'
348	891 ft	367 ft	0:00:05	50 mph	250.6° true	14-Feb-2024 09:40:51 PM	N35° 19.876' W84° 57.952'
349	876 ft	58 ft	0:00:01	39 mph	259.5° true	14-Feb-2024 09:40:56 PM	N35° 19.856' W84° 58.021'
350	873 ft	55 ft	0:00:01	38 mph	278.4° true	14-Feb-2024 09:40:57 PM	N35° 19.854' W84° 58.033'
351	869 ft	57 ft	0:00:01	39 mph	293.7° true	14-Feb-2024 09:40:58 PM	N35° 19.856' W84° 58.044'
352	863 ft	64 ft	0:00:01	43 mph	293.6° true	14-Feb-2024 09:40:59 PM	N35° 19.860' W84° 58.054'
353	858 ft	68 ft	0:00:01	46 mph	293.9° true	14-Feb-2024 09:41:00 PM	N35° 19.864' W84° 58.066'
354	854 ft	442 ft	0:00:06	50 mph	293.6° true	14-Feb-2024 09:41:01 PM	N35° 19.868' W84° 58.078'



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355	846 ft	68 ft	0:00:01	46 mph	293.6° true	14-Feb-2024 09:41:07 PM	N35° 19.897' W84° 58.160'
356	844 ft	130 ft	0:00:02	44 mph	293.7° true	14-Feb-2024 09:41:08 PM	N35° 19.902' W84° 58.173'
357	841 ft	64 ft	0:00:01	44 mph	278.2° true	14-Feb-2024 09:41:10 PM	N35° 19.910' W84° 58.196'
358	838 ft	63 ft	0:00:01	43 mph	272.0° true	14-Feb-2024 09:41:11 PM	N35° 19.912' W84° 58.209'
359	835 ft	376 ft	0:00:07	37 mph	271.4° true	14-Feb-2024 09:41:12 PM	N35° 19.912' W84° 58.222'
360	833 ft	21 ft	0:00:01	14 mph	256.8° true	14-Feb-2024 09:41:19 PM	N35° 19.914' W84° 58.298'
361	835 ft	12 ft	0:00:01	8 mph	0.0° true	14-Feb-2024 09:41:20 PM	N35° 19.913' W84° 58.302'
362	833 ft	18 ft	0:00:01	12 mph	2.9° true	14-Feb-2024 09:41:21 PM	N35° 19.915' W84° 58.302'
363	831 ft	27 ft	0:00:01	19 mph	3.1° true	14-Feb-2024 09:41:22 PM	N35° 19.918' W84° 58.301'
364	830 ft	35 ft	0:00:01	24 mph	2.4° true	14-Feb-2024 09:41:23 PM	N35° 19.922' W84° 58.301'
365	827 ft	287 ft	0:00:05	39 mph	2.9° true	14-Feb-2024 09:41:24 PM	N35° 19.928' W84° 58.301'
366	819 ft	524 ft	0:00:06	60 mph	2.8° true	14-Feb-2024 09:41:29 PM	N35° 19.975' W84° 58.298'
367	811 ft	0.1 mi	0:00:06	70 mph	353.1° true	14-Feb-2024 09:41:35 PM	N35° 20.061' W84° 58.293'
368	811 ft	210 ft	0:00:02	71 mph	0.9° true	14-Feb-2024 09:41:41 PM	N35° 20.162' W84° 58.308'
369	813 ft	103 ft	0:00:01	70 mph	11.6° true	14-Feb-2024 09:41:43 PM	N35° 20.197' W84° 58.307'
370	813 ft	105 ft	0:00:01	72 mph	12.6° true	14-Feb-2024 09:41:44 PM	N35° 20.213' W84° 58.303'
371	811 ft	107 ft	0:00:01	73 mph	21.8° true	14-Feb-2024 09:41:45 PM	N35° 20.230' W84° 58.298'
372	811 ft	107 ft	0:00:01	73 mph	21.8° true	14-Feb-2024 09:41:46 PM	N35° 20.246' W84° 58.290'
373	813 ft	104 ft	0:00:01	71 mph	21.9° true	14-Feb-2024 09:41:47 PM	N35° 20.263' W84° 58.282'
374	813 ft	98 ft	0:00:01	67 mph	21.9° true	14-Feb-2024 09:41:48 PM	N35° 20.279' W84° 58.274'
375	816 ft	87 ft	0:00:01	60 mph	15.2° true	14-Feb-2024 09:41:49 PM	N35° 20.294' W84° 58.267'



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376	817 ft	87 ft	0:00:01	59 mph	5.5° true	14-Feb-2024 09:41:50 PM	N35° 20.307' W84° 58.262'
377	820 ft	79 ft	0:00:01	54 mph	358.5° true	14-Feb-2024 09:41:51 PM	N35° 20.322' W84° 58.261'
378	824 ft	78 ft	0:00:01	53 mph	355.9° true	14-Feb-2024 09:41:52 PM	N35° 20.335' W84° 58.261'
379	827 ft	78 ft	0:00:01	53 mph	349.2° true	14-Feb-2024 09:41:53 PM	N35° 20.347' W84° 58.262'
380	825 ft	77 ft	0:00:01	53 mph	349.1° true	14-Feb-2024 09:41:54 PM	N35° 20.360' W84° 58.265'
381	824 ft	81 ft	0:00:01	55 mph	339.6° true	14-Feb-2024 09:41:55 PM	N35° 20.372' W84° 58.268'
382	820 ft	87 ft	0:00:01	59 mph	332.8° true	14-Feb-2024 09:41:56 PM	N35° 20.385' W84° 58.274'
383	813 ft	0.1 mi	0:00:06	70 mph	331.5° true	14-Feb-2024 09:41:57 PM	N35° 20.398' W84° 58.282'
384	784 ft	0.1 mi	0:00:05	81 mph	321.4° true	14-Feb-2024 09:42:03 PM	N35° 20.487' W84° 58.341'
385	773 ft	499 ft	0:00:04	85 mph	323.3° true	14-Feb-2024 09:42:08 PM	N35° 20.564' W84° 58.416'
386	768 ft	124 ft	0:00:01	84 mph	334.6° true	14-Feb-2024 09:42:12 PM	N35° 20.629' W84° 58.476'
387	767 ft	124 ft	0:00:01	84 mph	341.6° true	14-Feb-2024 09:42:13 PM	N35° 20.648' W84° 58.487'
388	765 ft	121 ft	0:00:01	83 mph	344.0° true	14-Feb-2024 09:42:14 PM	N35° 20.667' W84° 58.495'
389	762 ft	120 ft	0:00:01	82 mph	344.4° true	14-Feb-2024 09:42:15 PM	N35° 20.686' W84° 58.502'
390	761 ft	0.1 mi	0:00:05	76 mph	342.9° true	14-Feb-2024 09:42:16 PM	N35° 20.705' W84° 58.508'
391	751 ft	108 ft	0:00:01	74 mph	331.4° true	14-Feb-2024 09:42:21 PM	N35° 20.793' W84° 58.541'
392	750 ft	106 ft	0:00:01	72 mph	327.3° true	14-Feb-2024 09:42:22 PM	N35° 20.809' W84° 58.552'
393	748 ft	107 ft	0:00:01	73 mph	320.3° true	14-Feb-2024 09:42:23 PM	N35° 20.823' W84° 58.563'
394	746 ft	109 ft	0:00:01	74 mph	312.5° true	14-Feb-2024 09:42:24 PM	N35° 20.837' W84° 58.577'
395	746 ft	109 ft	0:00:01	74 mph	308.6° true	14-Feb-2024 09:42:25 PM	N35° 20.849' W84° 58.593'
396	745 ft	110 ft	0:00:01	75 mph	303.5° true	14-Feb-2024 09:42:26 PM	N35° 20.860' W84° 58.610'



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397	746 ft	114 ft	0:00:01	78 mph	297.7° true	14-Feb-2024 09:42:27 PM	N35° 20.870' W84° 58.629'
398	748 ft	112 ft	0:00:01	77 mph	295.8° true	14-Feb-2024 09:42:28 PM	N35° 20.879' W84° 58.649'
399	750 ft	112 ft	0:00:01	77 mph	288.6° true	14-Feb-2024 09:42:29 PM	N35° 20.887' W84° 58.670'
400	751 ft	113 ft	0:00:01	77 mph	283.3° true	14-Feb-2024 09:42:30 PM	N35° 20.893' W84° 58.691'
401	753 ft	113 ft	0:00:01	77 mph	283.2° true	14-Feb-2024 09:42:31 PM	N35° 20.897' W84° 58.713'
402	757 ft	0.3 mi	0:00:12	79 mph	283.6° true	14-Feb-2024 09:42:32 PM	N35° 20.901' W84° 58.735'
403	795 ft	0.2 mi	0:00:08	74 mph	285.1° true	14-Feb-2024 09:42:44 PM	N35° 20.955' W84° 59.008'
404	811 ft	0.1 mi	0:00:07	75 mph	298.8° true	14-Feb-2024 09:42:52 PM	N35° 20.992' W84° 59.177'
405	835 ft	0.2 mi	0:00:08	75 mph	309.0° true	14-Feb-2024 09:42:59 PM	N35° 21.053' W84° 59.313'
406	802 ft	108 ft	0:00:01	74 mph	322.8° true	14-Feb-2024 09:43:07 PM	N35° 21.145' W84° 59.451'
407	798 ft	0.1 mi	0:00:05	72 mph	332.3° true	14-Feb-2024 09:43:08 PM	N35° 21.159' W84° 59.464'
408	784 ft	0.1 mi	0:00:06	73 mph	350.9° true	14-Feb-2024 09:43:13 PM	N35° 21.236' W84° 59.514'
409	786 ft	0.1 mi	0:00:06	61 mph	354.4° true	14-Feb-2024 09:43:19 PM	N35° 21.340' W84° 59.534'
410	781 ft	0.1 mi	0:00:09	49 mph	349.4° true	14-Feb-2024 09:43:25 PM	N35° 21.428' W84° 59.545'
411	768 ft	330 ft	0:00:04	56 mph	352.9° true	14-Feb-2024 09:43:34 PM	N35° 21.532' W84° 59.569'
412	764 ft	93 ft	0:00:01	63 mph	358.7° true	14-Feb-2024 09:43:38 PM	N35° 21.585' W84° 59.577'
413	764 ft	95 ft	0:00:01	65 mph	0.9° true	14-Feb-2024 09:43:39 PM	N35° 21.601' W84° 59.577'
414	762 ft	98 ft	0:00:01	67 mph	11.6° true	14-Feb-2024 09:43:40 PM	N35° 21.616' W84° 59.577'
415	762 ft	99 ft	0:00:01	68 mph	12.8° true	14-Feb-2024 09:43:41 PM	N35° 21.632' W84° 59.573'
416	761 ft	98 ft	0:00:01	67 mph	18.2° true	14-Feb-2024 09:43:42 PM	N35° 21.648' W84° 59.569'
417	761 ft	0.1 mi	0:00:06	67 mph	25.8° true	14-Feb-2024 09:43:43 PM	N35° 21.663' W84° 59.562'



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418	768 ft	0.2 mi	0:00:09	66 mph	25.1° true	14-Feb-2024 09:43:49 PM	N35° 21.750' W84° 59.511'
419	783 ft	98 ft	0:00:01	67 mph	9.8° true	14-Feb-2024 09:43:58 PM	N35° 21.879' W84° 59.437'
420	784 ft	394 ft	0:00:04	67 mph	6.9° true	14-Feb-2024 09:43:59 PM	N35° 21.895' W84° 59.434'
421	794 ft	92 ft	0:00:01	62 mph	351.6° true	14-Feb-2024 09:44:03 PM	N35° 21.959' W84° 59.424'
422	794 ft	90 ft	0:00:01	62 mph	351.9° true	14-Feb-2024 09:44:04 PM	N35° 21.974' W84° 59.427'
423	792 ft	85 ft	0:00:01	58 mph	340.2° true	14-Feb-2024 09:44:05 PM	N35° 21.988' W84° 59.429'
424	791 ft	85 ft	0:00:01	58 mph	333.5° true	14-Feb-2024 09:44:06 PM	N35° 22.002' W84° 59.435'
425	787 ft	91 ft	0:00:01	62 mph	326.5° true	14-Feb-2024 09:44:07 PM	N35° 22.014' W84° 59.443'
426	784 ft	89 ft	0:00:01	61 mph	316.6° true	14-Feb-2024 09:44:08 PM	N35° 22.027' W84° 59.453'
427	781 ft	97 ft	0:00:01	66 mph	313.6° true	14-Feb-2024 09:44:09 PM	N35° 22.037' W84° 59.465'
428	778 ft	100 ft	0:00:01	68 mph	313.5° true	14-Feb-2024 09:44:10 PM	N35° 22.048' W84° 59.479'
429	775 ft	0.1 mi	0:00:06	72 mph	319.2° true	14-Feb-2024 09:44:11 PM	N35° 22.059' W84° 59.494'
430	776 ft	0.1 mi	0:00:07	76 mph	325.9° true	14-Feb-2024 09:44:17 PM	N35° 22.139' W84° 59.578'
431	768 ft	0.2 mi	0:00:09	83 mph	327.4° true	14-Feb-2024 09:44:24 PM	N35° 22.245' W84° 59.667'
432	732 ft	116 ft	0:00:01	79 mph	331.9° true	14-Feb-2024 09:44:33 PM	N35° 22.398' W84° 59.786'
433	731 ft	0.2 mi	0:00:08	79 mph	338.2° true	14-Feb-2024 09:44:34 PM	N35° 22.414' W84° 59.797'
434	738 ft	0.2 mi	0:00:08	81 mph	334.2° true	14-Feb-2024 09:44:42 PM	N35° 22.555' W84° 59.866'
435	724 ft	0.2 mi	0:00:10	82 mph	332.7° true	14-Feb-2024 09:44:50 PM	N35° 22.696' W84° 59.949'
436	738 ft	0.4 mi	0:00:18	82 mph	333.5° true	14-Feb-2024 09:45:00 PM	N35° 22.872' W85° 00.061'
437	792 ft	0.4 mi	0:00:19	80 mph	332.4° true	14-Feb-2024 09:45:18 PM	N35° 23.191' W85° 00.256'
438	789 ft	0.3 mi	0:00:16	76 mph	332.6° true	14-Feb-2024 09:45:37 PM	N35° 23.518' W85° 00.465'



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439	795 ft	0.2 mi	0:00:09	73 mph	332.6° true	14-Feb-2024 09:45:53 PM	N35° 23.778' W85° 00.631'
440	768 ft	0.2 mi	0:00:10	74 mph	332.7° true	14-Feb-2024 09:46:02 PM	N35° 23.919' W85° 00.721'
441	731 ft	0.3 mi	0:00:15	70 mph	332.7° true	14-Feb-2024 09:46:12 PM	N35° 24.077' W85° 00.821'
442	748 ft	0.1 mi	0:00:08	55 mph	332.5° true	14-Feb-2024 09:46:27 PM	N35° 24.303' W85° 00.964'
443	761 ft	0.1 mi	0:00:11	40 mph	332.4° true	14-Feb-2024 09:46:35 PM	N35° 24.396' W85° 01.024'
444	765 ft	147 ft	0:00:06	17 mph	333.0° true	14-Feb-2024 09:46:46 PM	N35° 24.489' W85° 01.084'
445	764 ft	66 ft	0:00:11	4.1 mph	332.7° true	14-Feb-2024 09:46:52 PM	N35° 24.511' W85° 01.097'
446	764 ft	31 ft	0:00:10	2.1 mph	332.8° true	14-Feb-2024 09:47:03 PM	N35° 24.521' W85° 01.103'
447	764 ft	21 ft	0:00:06	2.4 mph	234.6° true	14-Feb-2024 09:47:13 PM	N35° 24.525' W85° 01.106'
448	764 ft	31 ft	0:00:10	2.1 mph	165.5° true	14-Feb-2024 09:47:19 PM	N35° 24.523' W85° 01.109'
449	764 ft	21 ft	0:10:47	0.0 mph	153.4° true	14-Feb-2024 09:47:29 PM	N35° 24.518' W85° 01.108'
450	757 ft	36 ft	0:00:02	12 mph	102.4° true	14-Feb-2024 09:58:16 PM	N35° 24.515' W85° 01.106'
451	757 ft	17 ft	0:00:01	12 mph	152.4° true	14-Feb-2024 09:58:18 PM	N35° 24.514' W85° 01.099'
452	757 ft	255 ft	0:00:08	22 mph	152.9° true	14-Feb-2024 09:58:19 PM	N35° 24.511' W85° 01.097'
453	757 ft	431 ft	0:00:08	37 mph	152.6° true	14-Feb-2024 09:58:27 PM	N35° 24.474' W85° 01.074'
454	754 ft	0.2 mi	0:00:12	47 mph	152.3° true	14-Feb-2024 09:58:35 PM	N35° 24.411' W85° 01.034'
455	738 ft	0.2 mi	0:00:15	52 mph	152.6° true	14-Feb-2024 09:58:47 PM	N35° 24.290' W85° 00.956'
456	720 ft	0.2 mi	0:00:17	51 mph	152.7° true	14-Feb-2024 09:59:02 PM	N35° 24.125' W85° 00.851'
457	751 ft	0.2 mi	0:00:12	55 mph	152.6° true	14-Feb-2024 09:59:19 PM	N35° 23.938' W85° 00.733'
458	781 ft	0.2 mi	0:00:14	56 mph	152.6° true	14-Feb-2024 09:59:31 PM	N35° 23.796' W85° 00.643'
459	784 ft	0.3 mi	0:00:19	53 mph	152.4° true	14-Feb-2024 09:59:45 PM	N35° 23.629' W85° 00.536'



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460	791 ft	0.3 mi	0:00:18	57 mph	152.5° true	14-Feb-2024 10:00:04 PM	N35° 23.414' W85° 00.399'
461	789 ft	0.3 mi	0:00:20	55 mph	153.5° true	14-Feb-2024 10:00:22 PM	N35° 23.196' W85° 00.259'
462	743 ft	244 ft	0:00:04	42 mph	154.1° true	14-Feb-2024 10:00:42 PM	N35° 22.957' W85° 00.113'
463	740 ft	29 ft	0:00:01	20 mph	163.3° true	14-Feb-2024 10:00:46 PM	N35° 22.921' W85° 00.092'
464	740 ft	32 ft	0:00:01	22 mph	10.6° true	14-Feb-2024 10:00:47 PM	N35° 22.917' W85° 00.090'
465	742 ft	12 ft	0:00:01	8 mph	56.9° true	14-Feb-2024 10:00:48 PM	N35° 22.922' W85° 00.089'
466	742 ft	15 ft	0:00:01	10 mph	57.8° true	14-Feb-2024 10:00:49 PM	N35° 22.923' W85° 00.087'
467	742 ft	19 ft	0:00:01	13 mph	56.1° true	14-Feb-2024 10:00:50 PM	N35° 22.924' W85° 00.084'
468	743 ft	83 ft	0:00:03	19 mph	50.5° true	14-Feb-2024 10:00:51 PM	N35° 22.926' W85° 00.081'
469	745 ft	38 ft	0:00:01	26 mph	39.5° true	14-Feb-2024 10:00:54 PM	N35° 22.935' W85° 00.068'
470	745 ft	40 ft	0:00:01	27 mph	38.9° true	14-Feb-2024 10:00:55 PM	N35° 22.939' W85° 00.063'
471	745 ft	40 ft	0:00:01	27 mph	33.9° true	14-Feb-2024 10:00:56 PM	N35° 22.944' W85° 00.058'
472	745 ft	44 ft	0:00:01	30 mph	7.8° true	14-Feb-2024 10:00:57 PM	N35° 22.950' W85° 00.054'
473	746 ft	46 ft	0:00:01	31 mph	7.4° true	14-Feb-2024 10:00:58 PM	N35° 22.957' W85° 00.053'
474	746 ft	49 ft	0:00:01	33 mph	7.7° true	14-Feb-2024 10:00:59 PM	N35° 22.965' W85° 00.051'
475	748 ft	51 ft	0:00:01	35 mph	7.7° true	14-Feb-2024 10:01:00 PM	N35° 22.973' W85° 00.050'
476	746 ft	516 ft	0:00:09	39 mph	11.5° true	14-Feb-2024 10:01:01 PM	N35° 22.981' W85° 00.049'
477	740 ft	0.2 mi	0:00:13	45 mph	22.5° true	14-Feb-2024 10:01:10 PM	N35° 23.064' W85° 00.028'
478	756 ft	0.1 mi	0:00:12	42 mph	16.9° true	14-Feb-2024 10:01:23 PM	N35° 23.195' W84° 59.961'
479	767 ft	317 ft	0:00:07	31 mph	355.5° true	14-Feb-2024 10:01:35 PM	N35° 23.310' W84° 59.918'
480	761 ft	266 ft	0:00:05	36 mph	1.0° true	14-Feb-2024 10:01:42 PM	N35° 23.362' W84° 59.923'



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481	756 ft	60 ft	0:00:01	41 mph	15.9° true	14-Feb-2024 10:01:47 PM	N35° 23.406' W84° 59.922'
482	756 ft	62 ft	0:00:01	42 mph	15.9° true	14-Feb-2024 10:01:48 PM	N35° 23.415' W84° 59.919'
483	756 ft	62 ft	0:00:01	42 mph	16.3° true	14-Feb-2024 10:01:49 PM	N35° 23.425' W84° 59.916'
484	757 ft	65 ft	0:00:01	44 mph	24.3° true	14-Feb-2024 10:01:50 PM	N35° 23.435' W84° 59.912'
485	757 ft	0.1 mi	0:00:09	44 mph	24.3° true	14-Feb-2024 10:01:51 PM	N35° 23.444' W84° 59.907'
486	738 ft	46 ft	0:00:01	31 mph	2.6° true	14-Feb-2024 10:02:00 PM	N35° 23.531' W84° 59.859'
487	737 ft	37 ft	0:00:01	25 mph	0.0° true	14-Feb-2024 10:02:01 PM	N35° 23.539' W84° 59.858'
488	735 ft	30 ft	0:00:01	21 mph	317.8° true	14-Feb-2024 10:02:02 PM	N35° 23.545' W84° 59.858'
489	734 ft	36 ft	0:00:01	25 mph	317.9° true	14-Feb-2024 10:02:03 PM	N35° 23.548' W84° 59.862'
490	734 ft	40 ft	0:00:01	27 mph	317.5° true	14-Feb-2024 10:02:04 PM	N35° 23.553' W84° 59.867'
491	735 ft	45 ft	0:00:01	31 mph	317.6° true	14-Feb-2024 10:02:05 PM	N35° 23.558' W84° 59.873'
492	737 ft	446 ft	0:00:08	38 mph	323.8° true	14-Feb-2024 10:02:06 PM	N35° 23.563' W84° 59.879'
493	732 ft	75 ft	0:00:04	13 mph	326.6° true	14-Feb-2024 10:02:14 PM	N35° 23.622' W84° 59.932'
494	727 ft	102 ft	0:00:09	8 mph	326.5° true	14-Feb-2024 10:02:18 PM	N35° 23.633' W84° 59.940'
495	724 ft	340 ft	0:00:06	39 mph	326.6° true	14-Feb-2024 10:02:27 PM	N35° 23.647' W84° 59.952'
496	710 ft	0.2 mi	0:00:12	52 mph	326.7° true	14-Feb-2024 10:02:33 PM	N35° 23.693' W84° 59.989'
497	705 ft	0.2 mi	0:00:14	56 mph	328.5° true	14-Feb-2024 10:02:45 PM	N35° 23.818' W85° 00.090'
498	732 ft	0.2 mi	0:00:11	52 mph	337.8° true	14-Feb-2024 10:02:59 PM	N35° 23.978' W85° 00.210'
499	729 ft	0.2 mi	0:00:11	55 mph	333.7° true	14-Feb-2024 10:03:10 PM	N35° 24.106' W85° 00.274'
500	712 ft	0.2 mi	0:00:10	54 mph	337.8° true	14-Feb-2024 10:03:21 PM	N35° 24.236' W85° 00.353'
501	701 ft	0.1 mi	0:00:08	56 mph	347.4° true	14-Feb-2024 10:03:31 PM	N35° 24.357' W85° 00.414'



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502	675 ft	491 ft	0:00:06	56 mph	331.9° true	14-Feb-2024 10:03:39 PM	N35° 24.462' W85° 00.442'
503	679 ft	391 ft	0:00:06	44 mph	322.7° true	14-Feb-2024 10:03:45 PM	N35° 24.533' W85° 00.489'
504	664 ft	28 ft	0:00:12	1.6 mph	328.4° true	14-Feb-2024 10:03:51 PM	N35° 24.584' W85° 00.537'
505	655 ft	No Data	No Data	No Data	No Data	14-Feb-2024 10:04:03 PM	N35° 24.588' W85° 00.539'



Figure 9 Figure 2 Index 248-505 Garmin BaseCamp 2/14/2024

According to the GPS data recovered from the device, it traveled to Blythe's Ferry on two prior occasions. On 12/15/2023 the data shows that it was near the boat ramp at 4:58 AM where it appears that the ramp was approached followed by an immediate 180 out of the area of the boat ramp.



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Likewise, the data shows that the device traveled to the Blythe's Ferry boat vicinity on 12/17/2023 at 9:55 PM, followed by an immediate 180 out of the area of the boat ramp. After leaving the ramp the device traveled to the Hwy 60 bridge before turning around.



Figure 10 Prior trips to the vicinity of Blythe's Ferry ramp on 12/15/2023 and 12/17/2023



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Figure 11 GPS at Blythe's Ferry 12/17/2023 @9:55 PM



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Figure 12 GPS Location 12/16/2023 @ 4:58 AM

Data also shows that the device traveled through the intersection where a left turn goes to the boat ramp and a right turn then travels toward the jail. The data was plotted on Google Earth due to its demonstrative accuracy versus that of BaseCamp. The dates of travel noted are:

12/15/2023

12/17/2023

12/25/2023

12/29/2023

1/9/2024

1/31/2024

2/7/2024

2/11/2024



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Figure 13 Overall view in Google Earth



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Figure 14 Intersection view of prior trackpoints for the date range of 12/15/2023 through 2/11/2024



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Data Validation

The data recovered from this device on 2/14/2024 are validated by other data known through points in time through investigation. It is known that Leonard was at his residence having dinner at 9:30 PM according to witness statements, this correlates with the Garmin data. It is known that Leonard was dispatched to the Hwy 60 Bridge at 9:32 PM through dispatch and he responded enroute, this correlates with the Garmin data. It is known that Leonard arrived in the area of the call at 9:46 PM, this correlates with the Garmin data. At 9:47 PM, Leonard reports contact on the bridge, this correlates with the Garmin data. At 9:58 PM, Leonard reports travel to the Sheriff's Office with a prisoner, this correlates with the Garmin data. At 10:03:58 PM Leonard reports "water," this correlates with the Garmin data.

On 2/14/2024 search teams requested cellphone location for Leonard's Verizon cellphone. Federal assets were requested to find the approximate location of the device. At 10:03 PM the device was found at the boat ramp on Blythe's Ferry Road, this correlates with the Garmin data.

10:03 PM This image was supplied to DTF Deputy Director Brendan DeBoer from federal partners utilizing technology to obtain location data from RJ LEONARD's cellular records. This is the last known location of LEONARD's iPhone prior to finding the physical device in the water.

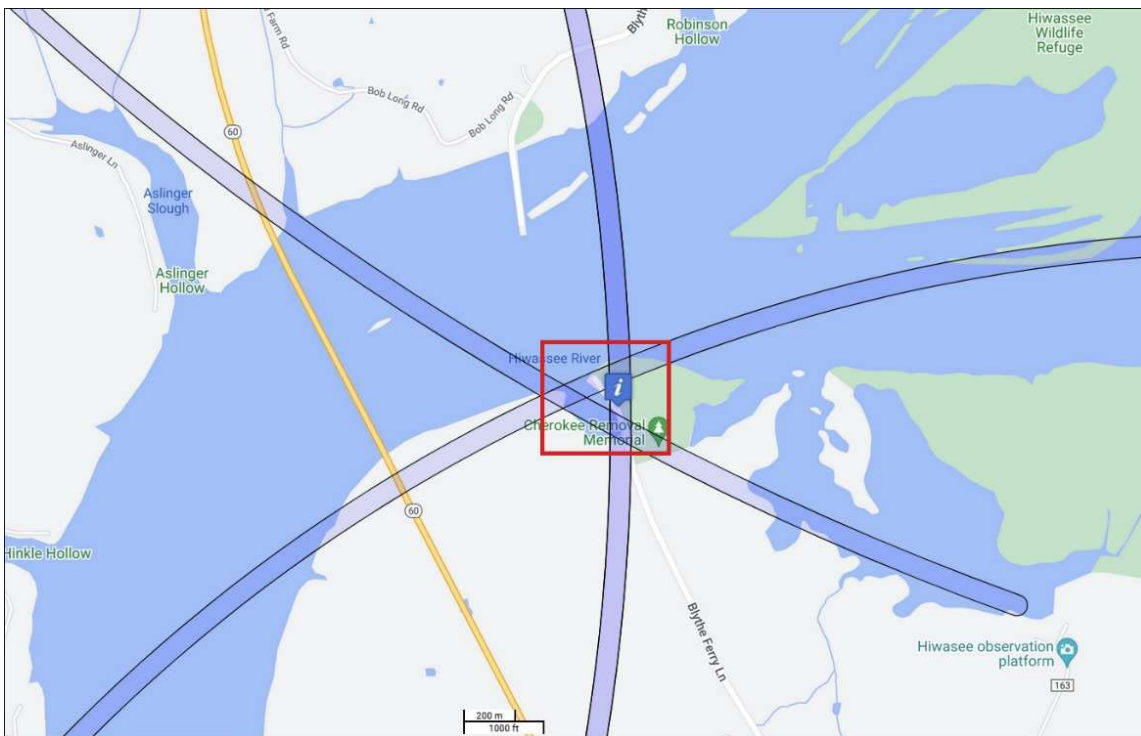


Figure 15 Cell map received 2/14/2024 for 10:03 PM



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Part 2 iPhone

The data referenced in this report was collected from a forensic extraction of RJ Leonard's iPhone. The device was recovered from Leonard's tactical vest and extracted by the Tennessee Highway Patrol. This report is generated to narrow the data for the time period of 2/14/2024 from 9:30 PM to 11:59 PM. The report has been evaluated and redacted to eliminate the release of personal or non-relevant information prior to public dissemination. Leonard's device was extracted by the Tennessee Highway patrol and that file shared with the author of this report in addition to a 75,000+ page report summarizing the entire contents of the device at a full file system level. The password to this device was obtained by THP through the officer's widow. This report contains screen captures from forensic tools and inserted into this document for demonstrative purposes. Magnet Process was utilized to parse the data and Magnet Axiom was utilized to examine the data. Lastly, Magnet Examine was utilized to filter the data within the parameters of 9:30 PM to 11:59 PM on the date of the crash.

Device Information

iPhone 14 Plus

IMEI 356806354017469

Extraction size 75.4 GB

Examiner Name: TFO James Knipper (Extracted device)

Tools utilized

EDAS Fox Forensic Machine

Magnet Axiom Process and Examine Software Version 8.3.1.41227

Google Earth Pro 7.3.6.9796

Files received from the Tennessee Highway Patrol included in this examination

00008110-000A51D8028A201E_files_full.zip	75.4 GB	4/2/24, 11:08:38 AM
00008110-000A51D8028A201E_keychain.plist	4.0 MB	4/2/24, 10:34:02 AM
00008110-000A51D8028A201E_passwords.txt	185 kB	4/2/24, 10:34:08 AM
00008110-000A51D8028A201E.pdf	866 kB	4/2/24, 10:34:12 AM



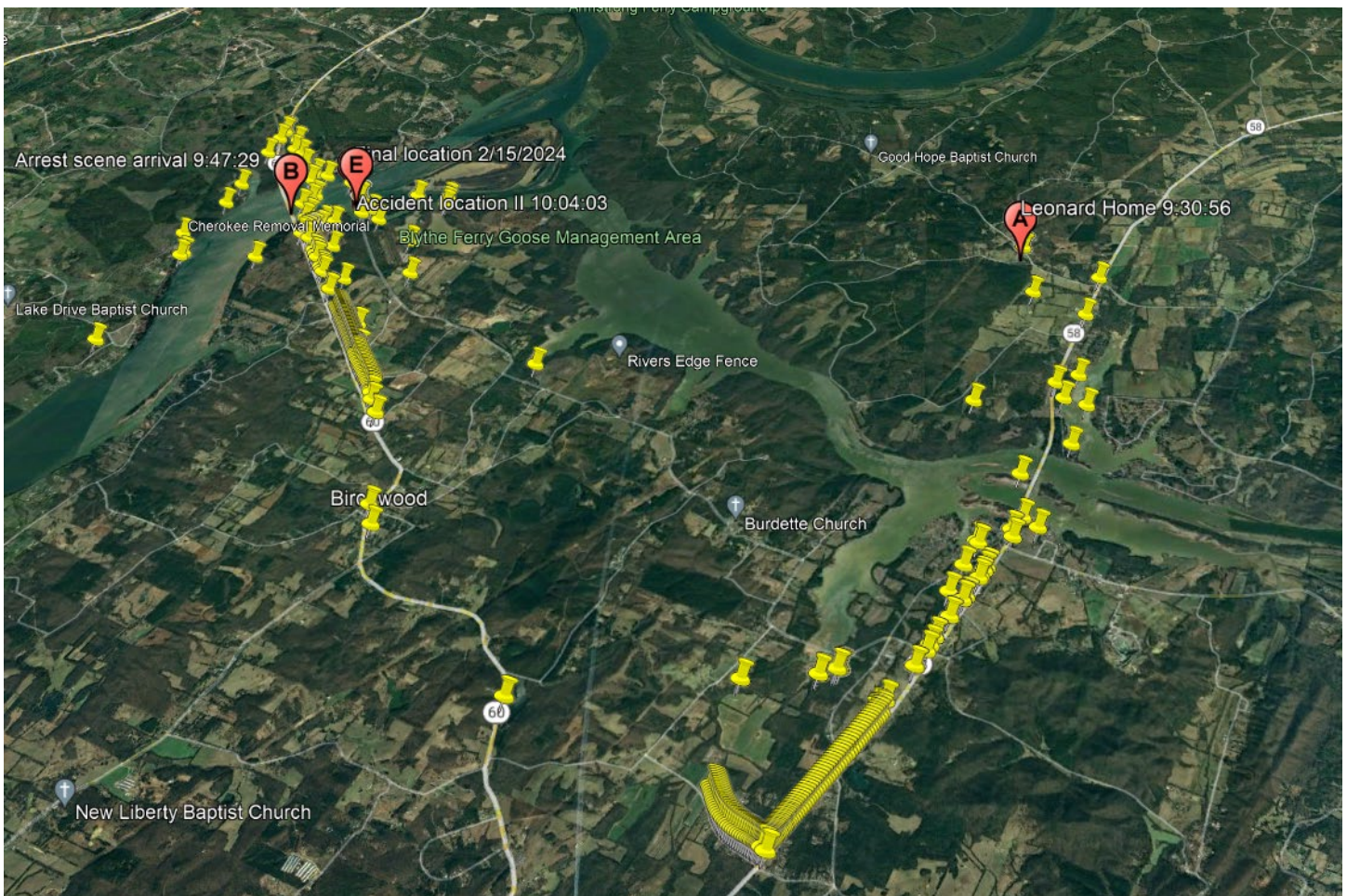
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Findings

The findings in this exam will come from several artifacts relevant to the accident on 2/14/2024 that occurred around 10:04 PM leading to the death of Leonard and Smith. The findings will include phone usage before the accident and just prior to when the 911 call was received by dispatch.

Location

The data recovered from Leonard's iPhone further validates the findings recovered from other sources. It shows that he was at his residence at 9:30 PM and traveled to the Highway 60 Bridge. While the location data is less precise than the Garmin unit, the mapped data clearly shows the route of travel from his home to the bridge and known point of Leonard's interaction and arrest of Smith, then to the Blythe Ferry boat ramp accident site.



Data recovered from the device suggests that Leonard used iOS maps to navigate to the area of Blythe Ferry:



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	58 Blythe Ferry Ln Eastview Cir SR-58	2/14/2024 9:37:50.000 PM	2,037	iOS Maps
	58 Eastview Cir Old Highway 58 SR-58	2/14/2024 9:38:13.000 PM	1,280	iOS Maps
	58 N McColpin Ln SR-58 Wright Ln	2/14/2024 9:38:18.000 PM	1,114	iOS Maps
	Gunstocker Rd	2/14/2024 9:39:14.000 PM	542	iOS Maps
	Clayton Ridge Rd Gunstocker Rd Sanders Rd	2/14/2024 9:39:14.000 PM	1,582	iOS Maps
		2/14/2024 10:00:05.000 PM	95	iOS Maps
		2/14/2024 10:00:05.000 PM	178	iOS Maps

Messages Calls and Communications

During the police action the device contains evidence that Leonard used his cellphone to communicate with his wife and fellow officer that was said to be covering the North End of Meigs County.

↗ Sent

During the shift Leonard and Officer Ben Christian aka Cornbread utilized a messaging application. Below is a verbatim narrative of the data recovered:

RJ Leonard (777500743)

2/14/2024 8:48:39.521 PM

Hey, the brakes on this car starting to get a little noisy. Would have Swafford take a look at it when I get out of it.

✓ Received

Ben Christian (100014059908186)

2/14/2024 8:49:16.696 PM

Hey, I tried to answer. My wifi isn't working good tonight. Are they real bad?

↗ Sent

RJ Leonard (777500743)

2/14/2024 8:50:46.790 PM

No. I just wanted to make sure someone knows about it.

✓ Received

Ben Christian (100014059908186)

2/14/2024 8:52:08.576 PM

Cool. If they need it we can get them changed right away. If not then I'll definitely have him look at it as soon as you get out of it.

↗ Sent

RJ Leonard (777500743)

2/14/2024 8:52:33.895 PM

I think they said I should be good to go Friday or Monday.



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✓ Received

Ben Christian (100014059908186)

2/14/2024 8:53:00.013 PM

Sweet

✓ Received

Ben Christian (100014059908186)

2/14/2024 9:53:38.630 PM

She is a habitual meth/fentanyl user

↗ Sent

RJ Leonard (777500743)

2/14/2024 9:56:46.797 PM

She's going to jail

✓ Received

Ben Christian (100014059908186)

2/14/2024 9:58:18.304 PM

Arrested on valentines day 😂😂😂

↗ Sent

RJ Leonard (777500743)

2/14/2024 9:58:50.725 PM

Yea she's walking into traffic on the bridge.

↗ Sent

RJ Leonard (777500743)

2/14/2024 9:59:11.452 PM

Walked in front of me too with my lights on.

✓ Received

Ben Christian (100014059908186)

2/14/2024 9:59:32.989 PM

Damn. Definitely public intox


One call is noted in the data with a call to Cornbread with a duration of 42 seconds:

+14235990585 Cornbread Outgoing 2/14/2024 9:57:00.155 PM



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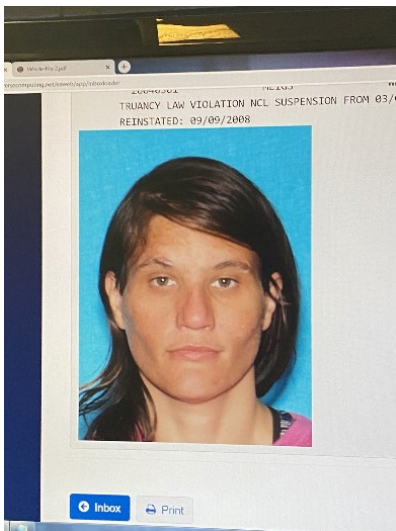
ARTIFACT INFORMATION

Local User **Local User**
<00008110-000A51D8028A201E_files_full.zip>
Partners **+14235990585**
Direction **Outgoing**
Call Type **Phone**
Call Status **Answered**
Call Date/Time **2/14/2024 9:57:07.022 PM**
Call End Date/Time **2/14/2024 9:57:48.636 PM**
Call Duration **00:00:42**
Application Name **com.apple.Telephony**
Service Provider Country Code **US**
Artifact type  **iOS Call Logs**
Item ID **39547**

During the encounter with Smith, Leonard requested a photo of Smith from dispatch and received the following response to Leonard's iPhone:

Dispatch (+14234352570)

2/14/2024 9:53:40.000 PM





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From 9:30 PM Leonard interacted with his spouse via text message. The message thread is below.

RJ Leonard		2/14/2024 10:03:12.000 PM
Arrest.		
Spouse		✓ Received
Noice		2/14/2024 10:05:30.000 PM

The last relevant forensic artifact noted on this device is the Powerlog Device Lock State. According to data recovered from the device the phone entered locked state at 10:03:36 PM which is 24 seconds after the last message that went to his spouse at 10:03:12 PM and 46 seconds before Leonard radios 'water' at 10:03:58 PM.

Yes	2/14/2024 10:03:36.507 PM	PowerLog Device Lock State
-----	---------------------------	----------------------------

End Report

Cortney E. Dugger MSDF|MBA|CFCE
Forensic Examiner and Agent
9th District Attorney General's Office
Kingston, TN 37763